

Title:

EP0216947B1: Card-shaped data carrier and method of producing it

Country:

EP European Patent Office (EPO)

Kind:

B1 Patent (See also: EP0216947A1)

Inventor(s):

Maurer, Thomas

Applicant/Assignee:

Licensing

MAURER ELECTRONICS GMBH

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Issued/Filed Dates:

Inquire Regarding

Jan. 2, 1991 / Oct. 1, 1985

Application Number:

EP1985000112432

IPC Class:

G06K 19/08; B42D 15/02;

Priority Number(s):

Oct. 1, 1985 EP1985085112432

INPADOC Legal

Status:

Show legal status actions

Designated

AT BE CH DE FR GB IT LI LU NL SE

PARTNER:

Countries:

Attorney, Agent, or

TER MEER - MÜLLER - STEINMEISTER &

Firm

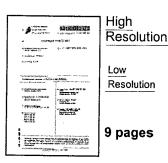
Show known family members

Claims:

Family:

[Hide claims]:

- Card-shaped data carrier bearing a relief with a substrate and at least one transparent covering film, the substrate being provided with information readable through the covering film by means of a laser beam which passes through the covering film, characterised in that the transparent covering film (2) bears the relief (3), which overlaps the information area at least partially and is applied before the information is recorded, this relief producing an optical lens effect and thus characteristically modifying the information that is to be recorded by means of the laser beam.
- 2. Card-shaped data carrier according to Claim 1, characterised in that the relief (3) is in the form of a raised pattern of lines or dots.
- 3. Card-shaped data carrier according to Claim 2, characterised in that the relief (3) is in the form of a raised pattern of convex lines or dots.

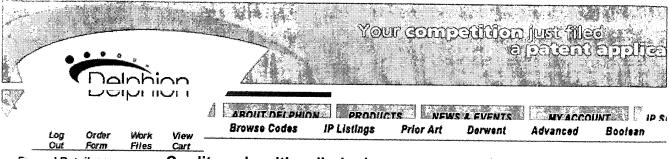


- 4. Card-shaped data carrier according to Claim 3, characterised in that the relief (3) is in the form of cylindrical lenses.
- 5. Card-shaped data carrier according to at least one of the foregoing Claims, **characterised in that** the cylindrical lenses are in the form of a pattern of lines covering the surface.
- 6. Card-shaped data carrier according to at least one of the foregoing Claims, **characterised in that** the pattern of lines or dots covering the surface is in the form of lines, concentric circles, two-dimensional lettering and/or a two-dimensional logo.
- 7. Card-shaped data carrier according to at least one of the foregoing Claims, **characterised in that** the relief (3) is in the form of a pattern of lines or dots which does not cover the surface.
- 8. Card-shaped data carrier according to Claim 7, characterised in that the relief (3) is in the form of letters, a monogram, an engine-turned pattern, a stamp, a national emblem or a logo made up of lines.
- 9. Card-shaped data carrier according to at least one of the foregoing Claims, **characterised in that** the information is characteristically modified by interference phenomena between the pattern of lines or dots of the relief (3) and the grid of the information recording.
- 10. Method for the manufacture of the card-shaped data carrier according to the foregoing claims, characterised in that a transparent covering film (2) provided with the relief (3) which has an optical lens effect is bonded on to the substrate (1) with the aid of a lining sheet provided with a negative relief pattern produced by engraving, or else after a flat covering film has been bonded on, it is provided with the relief (3) with the optical lens effect by embossing, after which the information is recorded through the covering film onto the substrate (1) at least partially in the area underneath the relief by means of a laser beam. 10. Method for the manufacture of the card-shaped data carrier according to the foregoing claims. characterised in that a transparent covering film (2) provided with the relief (3) which has an optical lens effect is bonded on to the substrate (1) with the aid of a lining sheet provided with a negative relief pattern produced by engraving, or else after a flat covering film has been bonded on, it is provided with the relief (3) with the optical lens effect by embossing, after which the information is recorded through the covering film onto the substrate (1) at least partially in the area underneath the relief by means of a laser beam.

[Show in German] [Show in French]

Other Abstract Info: DERABS C87-095120

Foreign References: No patents reference this one



Expand Details++

Credit card - with cylinder lenses on cover for surface to focus laser beam on underlying substrate for recording data

Assignee: LEIGH-MARDON PTY LTD Standard company (LEIG...)

MAURER ELTRN GMBH Non-standard company

Inventor(s): MAURER T;

Accession / Update: 1987-095120 / 198714

IPC Class: B42D 15/02; G06K 19/08;

Derwent Classes: A84; P76; T04;

Manual Codes: A12-D(Others), T04-C(Digitally marked record carriers)

Derwent Abstract

DERWENT

RECORD

(EP0216947A) An identity or credit card is made of substrate (1) which is a material with a high absorption for the laser radiation used, e.g. paper or plastic with a filler. A transparent cover foil (2) is made e.g. of PVC or polyester. A relief of the shape of cylinder lenses (3) is applied to the top of the foil (2), to be used for recording data on the boundary of substrate and cover foil as indicated by the items (4.5.6).

indicated by the items (4,5,6).

Advantage - This greatly increases the security against falsification

of the data.

Abstract info: EP0216947A: Dwg.2/3, EP0216947B: Dwg.2/3

Family:

Patent	Issued	Update	Pages	Language	IPC Class
EP0216947A *	April 08, 1987	198714	8	German	B42D 15/02
Des. States:	(R) AT BE CH DE FR (GB IT LI LU 1	NL SE		
Local appls.:	EP198600011243	32 ApplDa	te:1986	-10-01 (86EF	P-0112432)
DE3581082G =	Feb. 07, 1991	199107	**********	German	B42D 15/02
Local appls.:					
EP0216947B =	Jan. 02, 1991	199102	4 + 6 6 5 2 2 2 2 4 4	English	B42D 15/02
Des. States:	(R) AT BE CH DE FR (B IT LI LU N	NL SE	•	
Local appls.:					
AU8666983A =	June 30, 1988	198834	*********	English	*********
Local appls.:				-	
************	***************	: x x x + > + < x x x x a 4 a	· * * * * * * * * * * * * * * * * * * *	************	**************

DW

Priority Number(s):

Application Number	Application Date	Original Title
	1	

EP1986000112432	Oct. 01, 1986	Method of testing and indicating the operability of a distributive data-processing system	
EP1985000112432	Oct. 01, 1985	Card-shaped data carrier and method of producing it	

Polymer Multipunch

Codes:

Show polymer multipunch codes

Poylmer Keyterm Serial Number:

Show polymer keyterm serial numbers

Citations:

DE3248784: AUSWEISKARTE UND VERFAHREN ZU IHRER

HERSTELLUNG

FR2450164: CARTE D'IDENTIFICATION

FR2496938: CARTE D'IDENTIFICATION DONT LES INFORMATIONS SONT PORTEES À L'AIDE D'UN RAYON LASER AU TRAVERS DE MOTIFS DE SECURITE DISPOSES EN SURFACE TELS QUE DES GUILLOCHURES ET

PROCEDE DE REALISATION D'UNE TELLE CARTE

FR2525007: CARTE D'IDENTIFICATION A PLUSIEURS COUCHES ET SON

PROCEDE DE FABRICATION GB2132136 : IDENTITY CARD

Title Terms:

CREDIT CARD CYLINDER LENS COVER SURFACE FOCUS LASER BEAM

UNDERLYING SUBSTRATE RECORD DATA

Pricing

Current charges

Data copyright Derwent 2002

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Patent / Accession Numbers

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